

ABSTRACT

An optical switching subsystem comprising; a plurality of input optical ports for inputting an optical signal, a plurality of output optical ports for outputting the optical signal, 5 an optical switch formed by a micro electromechanical system (MEMS) for switching an optical path among said input optical ports and said output optical ports, a controller for instructing said optical switch to execute switching operation, and self-diagnosis means for measuring performance characteristics of said optical switching subsystem and diagnosing said optical switching subsystem based upon said performance characteristics.